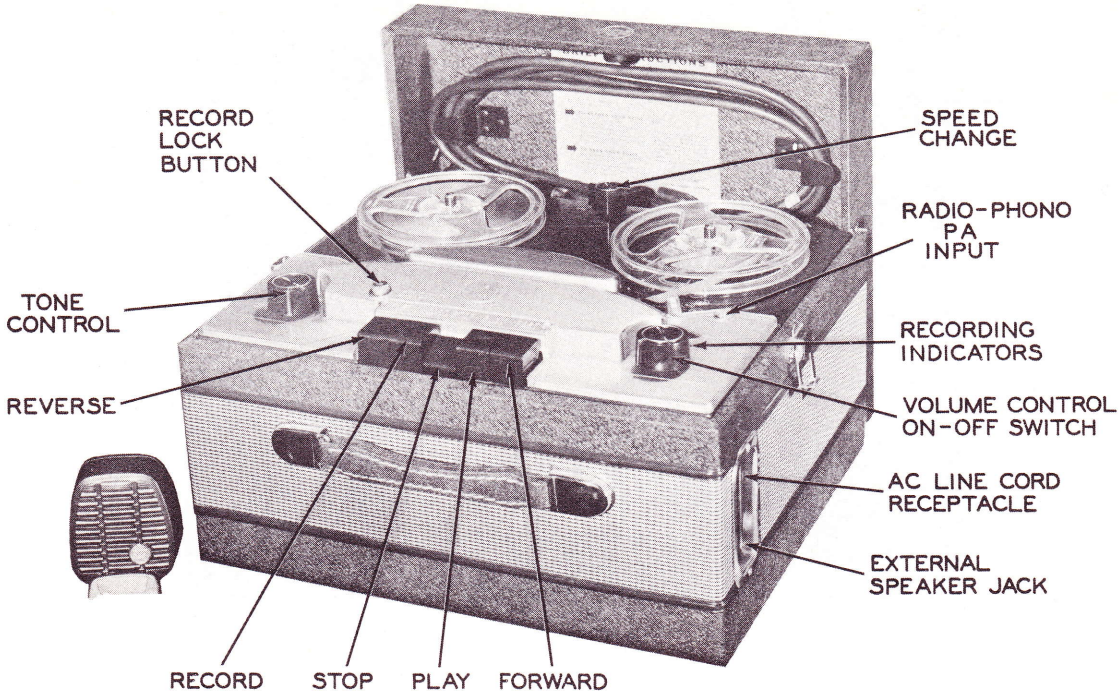
RCA
MODEL SRT-301 (MI-15910)



RCA
MODEL SRT-301 (MI-15910)

GENERAL INFORMATION

This RCA Push-Button Tape Recorder features fingertip operation for Fast Forward, Playback, Stop, Record and Fast Reverse. The RCA is designed to record and play back two tracks of material on standard width recording tape, which doubles the playing time of a standard 5" or 7" reel of tape with no loss of frequency response or quality. Recordings can be made from a radio, television receiver or phonograph, in addition to those made directly from the microphone. Recordings can be played back through the self-contained speaker or an external speaker through use of the Auxiliary Speaker Jack.

This recorder has two tape speeds, 7 1/2" and 3 3/4" per second. Using both tracks of the tape the recording time is as follows:

SIZE	SPEED 3 3/4	SPEED 7 1/2
5" reel	1 hour	1/2 hour
7" reel	2 hours	1 hour

The Model SRT-301 is designed to operate on 60 cycle, 115 volt, AC supply.

CAUTION: Severe Damage Will Result if Connection is Made to a Direct Current (DC) Line.

Manufactured by:

Engineering Products Dept.
Radio Corp. of America
Camden, N. J.

This material compiled and published by

HOWARD W. SAMS & CO., INC., INDIANAPOLIS, INDIANA

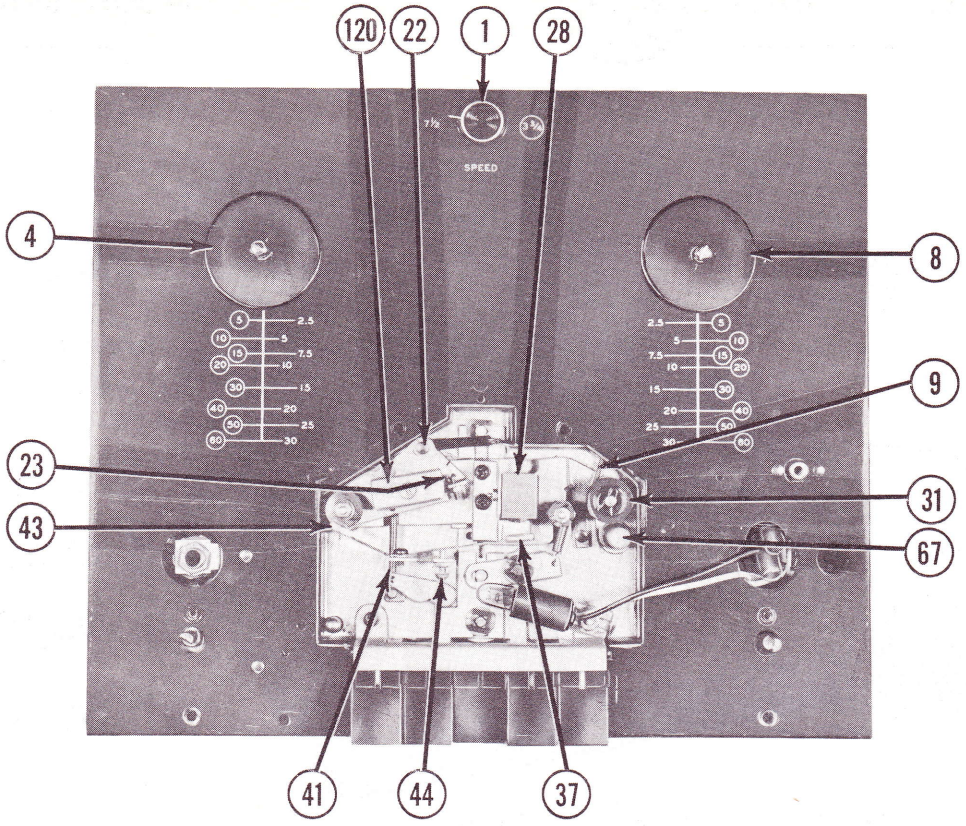


Figure 2.

OPERATING INSTRUCTIONS

1. With the "Stop" button depressed, insert the AC power cord into the receptacle at the right side of the cabinet (Figure 1).

2. Plug the AC cord into a convenient wall receptacle of the proper rating.

Threading the Tape -

1. Place a reel of tape on the left spindle (4) and an empty reel on the right spindle (8) making sure the reel slots engage the reel pin on the spindles.

2. Unwind about 14" of the tape from the reel. Hold a section of the tape straight with both hands and insert the tape in the tape slot making sure the dull coated side of the tape faces the rear of the recorder.

NOTE: This recorder uses Type "A" wound tape, i.e. the dull magnetic coated side faces inward on the reel. If the tape to be used is Type "B" (coated side facing outward) place the reel on the left spindle so that the tape will lead-off in a clockwise direction. Bring the tape behind the rear cover (5) (not through the head slot) and thread it on to the right reel in the normal manner. Press the "Forward" button and allow the full reel of tape to wind on the empty reel. The dull side of the tape will now be facing inward on the reel.

3. Insert the free end of the tape through the hub of the right take-up reel and place a pencil firmly over the tape, forcing it into one of the three radial slots on the hub of the empty reel. Turn the reel several turns with the pencil in this position until the tape is secured to the reel and all slack is taken up between the reels.

To Record From Microphone -

1. Turn the On-Off Volume Control to the right until a click is heard and allow about thirty seconds for the unit to warm up. The pilot light located above the "Stop" button will glow when the unit is turned on.

2. Insert the microphone plug into the "Microphone Input Jack".

3. Turn the speed control knob (1) to the desired speed.

NOTE: Recordings made at a certain speed must be played back at that speed.

4. Press record lock button (18) downward with the left hand. This releases the record safety lock which prevents accidental erasure.

5. Depress the "Record" key with the right hand (while holding the record lock button (18) with the left hand) until it latches.

6. While talking into the microphone, adjust the "Volume" control until the "Normal" indicator flashes and no flashing occurs at the "Overload" indicator.

NOTE: Correct recording volume is very important. Too weak a signal, which does not cause the "Normal" indicator to flash, will result in weak playback and high background noise.

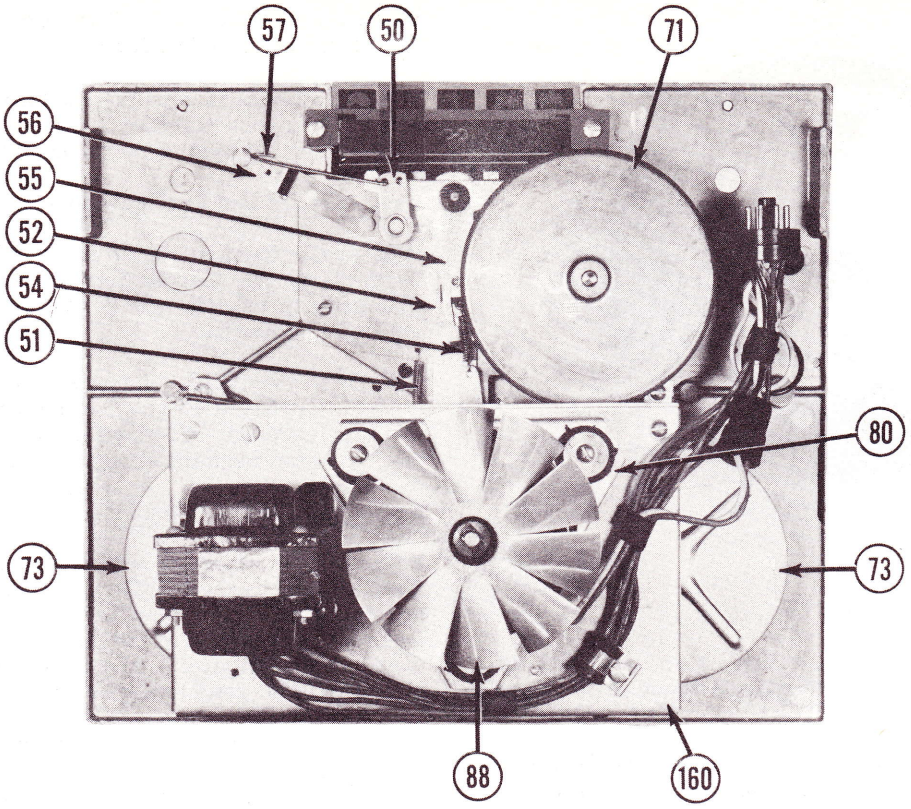


Figure 3.

Too strong a signal, causing the "Overload" indicator to flash, will result in distortion during playback.

To Record From External Radio-

Recordings can be made from a radio by placing the microphone near the loudspeaker of the radio; however, this type of recording may not be satisfactory as other sounds may be picked up by the microphone which as a result will be recorded on the tape. A superior quality recording can be made by use of the radio-phono attachment cord. Connect attachment cord as follows:

1. Connect the cord clips across the voice coil terminals on the radio speaker as shown in Figure 4.

2. Insert the cord plug into the "Radio, PA, Phono Jack".

3. Proceed as described in "To Record From Microphone".

NOTE: Remove attachment cord after recording is completed.

To Record From Phonograph -

1. Connect the cord clips of the attachment cord to the pickup leads on the external phonograph.

2. Insert the attachment cord plug into the "Radio, PA, Phono Jack".

3. Proceed as described in "To Record From Microphone".

NOTE: Should a hum develope from the above connection, reverse the cord clips on the pick-up leads.

To Record From Television Receiver -

1. Connect attachment cord as described in "To Record From External Radio" and proceed with recording as described in "To Record From Microphone".

NOTE: The Tone Control does not operate during recording. When recording from radio or a television receiver set the radio or television tone control for maximum treble.

Dual Track Recording -

The RCA is designed so that 1/2 the tape width is recorded at a time; thereby resulting in two track recording. This two track operation is accomplished in the following manner:

1. After a reel of tape has been recorded, i.e. all of the tape wound on to the take-up reel, depress the "Stop" push button. This stops all movement of the tape.

2. Remove the reels from the recorder, turning the full reel over and placing it on the left spindle and the empty reel on the right spindle.

3. Properly thread the tape and proceed with the recording as in "To Record From Microphone".

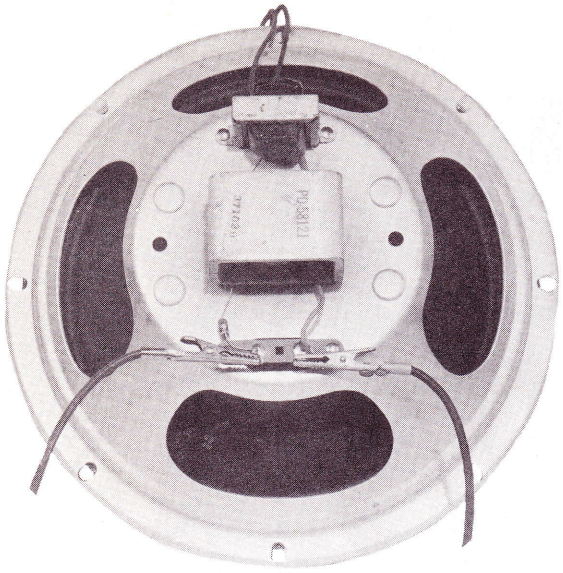


Figure 4.

4. After this track has been recorded the first track of recording is ready to be played without rewinding.

(a) Place the full reel of tape on the feed reel (left) spindle and the empty reel on the take-up (right) spindle.

(b) Thread the tape making sure the dull side of the tape faces the record head.

(c) Set the controls as described under "To Play a Recording".

To Play a Recording -

1. Thread the tape as described under "Threading the Tape".

2. Turn the On-Off Volume control on and allow thirty seconds for the tubes to warm up.

3. Depress the "Play" button until it is latched into position.

4. Adjust the Volume and Tone control to suit.

To Use an External Speaker -

Any size speaker of the permanent magnet type, having a 3 ohm voice coil, may be used by connecting a speaker extension cord acorss the voice coil of the speaker and then inserting the extension plug (same type as micorphone plug) into the External Speaker Jack located on the right side of the cabinet. This automatically cuts out the self-contained speaker.

To Edit and Splice Tape -

NOTE: Since it is impossible to edit and splice one track without affecting the other, recordings which are to be edited should be limited to one track only.

1. The tape may be edited by cutting out unwanted portions, or by joining selections into another sequence. Announcements may be inserted between selections, etc. Unused sections of tape can be spliced together for re-use.

2. For best results, cut tape at a slight diagonal, join ends together with splicing tape on the glossy side and trim off any excessive width.

Fast Forward and Fast Rewind -

High-speed forward or reverse wind can be obtained by pressing the desired button. These are used primarily in locating a desired portion of a recording in a few seconds.

CAUTION: The "Stop" button should always be depressed before changing functions or speeds. Always depress the "Stop" button when the recorder is not in use.

Erasing Recorded Material -

Erasing of recorded material takes place automatically when new material is recorded; therefore, no special step is necessary to erase recordings before new recordings are made. However, if a portion of a recording or an entire reel of tape is to be completely erased, do so as follows:

1. Properly thread the tape on the machine.

2. Turn the Volume control knob clockwise until a click is heard. This turns the recorder on.

3. Press down on the Record button until it latches into position. The erasing of recorded material is now in process and may be stopped at any time by depressing the "Stop" button.

NOTE: Only one track of recorded material is erased at a time. To erase the second track, reverse the reels and repeat the above operation.

To Use Recorder as a Public Address System -

The recorder may be used for public address with or without recording the material at the same time. Plug in an external speaker as described in "To Use an External Speaker". Turn the recorder on and depress the Record button, but do not use tape. Be careful to maintain sufficient distance between the microphone and the external speaker to prevent feedback howl. If it is desired to record the program, thread the tape as previsouly described before depressing the Record button.

ADJUSTMENTS

Disassembly Instructions -

1. Remove two Phillips head screws from rear of case.

2. Remove push-on type volume and tone control knobs.

3. Remove two screws located under volume and tone control knobs. Remove escutcheon.

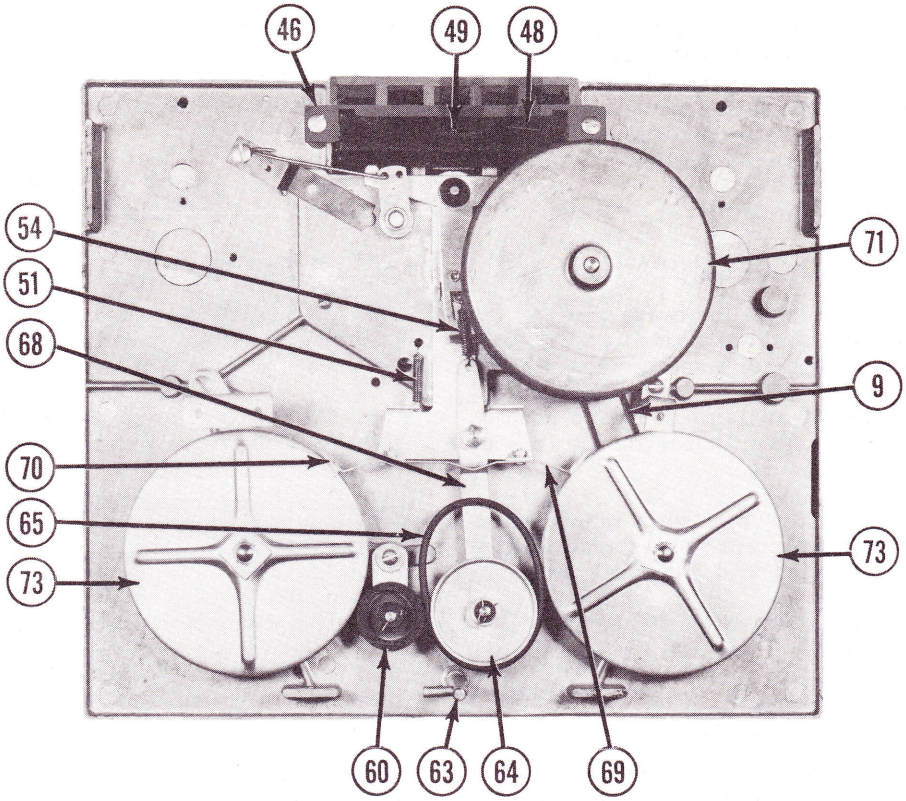


Figure 5.

4. Remove two hex head screws located under escutcheon.

5. Lift unit out of case, removing leads from speaker before removing unit completely.

Record-Play Head Adjustment (See Exploded View) -

To adjust the record-play head (28) for maximum frequency response, make the following adjustment:

1. Remove the rear cover escutcheon (5).

2. Properly thread an alignment tape or a good recorded tape on the machine.

3. Set the controls as described under "To Play a Recording".

Grip the vertical portion of the record head mounting bracket with a pair of long-nosed pliers. Rock the mounting bracket and record head from side to side slightly until the maximum high frequencies are obtained. Bend the bracket with the pliers to obtain a permanent set at this position.

4. Replace the rear cover excutcheon (5).

Pressure Pad Adjustment (See Exploded View) -

1. Remove the front and rear escutcheons (5 and 11).

2. Depress the "Play" button. Do not turn the recorder on.

3. Use a pencil type postal scale and check the amount of pressure necessary to just pull the pad away from the tape. The test should be made on the end of the pressure pad mounting spring (37). Adjust the pressure pad for 1-3/4 oz. $\pm$ 1/4 oz. pressure.

(a) The record-head pressure pad is adjusted by the locked adjustment screw (44).

(b) The guide post pressure pad (43) is adjusted by bending the pressure pad spring. It must be adjusted for minimum pressure against the tape.

4. After the adjustments are made depress the "Stop" button and replace the trim covers.

Erase Head Adjustment -

1. With tape properly threaded, turn recorder on and depress the Record button. Allow tape to run for a few seconds then turn recorder off, but leave Record button depressed.

2. With the trim covers removed check the erase head (120), see Figure 2, to see if it is parallel with the tape, if not loosen screw (22) just enough so the head can be pivoted and align it with the tape then tighten the screw.

CAUTION: Make sure the head retracting spring (24), see Figure 6, remains in front of the erase head while adjusting it.

3. Check to see if the top edge of the tape coincides with the top end of the diagonal slot in the erase head (junction of long diagonal slot and short vertical slot). To adjust level of tape, loosen lock nut (20), see Figure 6, and rotate tape guide post (21) to move tape up or down. Tighten lock nut (20).

4. After this adjustment has been made, check to see if the tape moves forward approximately 1/64" when the "Record" button is depressed, if not, loosen the forward adjustment screw (23) and turn the screw in or out as required to obtain this 1/64" adjustment. Tighten the lock nut.

5. Replace the trim covers.

Brake Shoe Adjustment - (See Figure 5)

1. In order to adjust the brake shoes, the complete mechanism must be removed from the carrying case and the speaker disconnected.

2. With all push buttons in the up position the brake shoes (70) should clear the drums by approximately 1/8".

3. Depress the "Stop" pushbutton while observing the brake shoes. Both brake shoes must contact the drums at the same time and with equal pressure.

4. The adjustment is accomplished by bending the spring arm (69).

Adjustment for Slow Take-Up Reel -

There are some instances where the spring drive belt (9), see Figure 5, stretches after a period of time. In this case, the belt should be removed and shortened.

1. Clip off 3 to 5 turns of the spring belt.

NOTE: The spring belt is made so that one end will twist into the tip of the other end; therefore, clip the turns off the large end of the belt.

2. Twist the ends together and replace the belt.

Recording Bias Adjustment-

The recording bias should need adjustment only if the 5879 tube is replaced. The bias adjustment trimmer (M4) is accessable after the recorder mechanism is removed from the cabinet and the amplifier chassis bottom cover is removed.

To adjust the bias proceed as follows:

1. Turn the recorder on and depress the "Reord" key.

2. Set "Volume" control to minimum (counter-clockwise).

3. Connect an AC VTVM (must be low capacity type usable to 40KC) to pin 1 on V3, grid of 6AQ5.

4. Adjust trimmer (M4) to obtain a meter reading of 2.25V.

TROUBLES

Push Buttons Fail to Latch into Position -

1. Lock plate spring (49) loose or broken, resulting in the lock plate not being held against the hinge bracket (46). See Figure 5.

Fails to Erase -

1. Spring (41) loose or broken, resulting in the erase head (120) not being pulled forward to engage the tape. See Figure 2.

2. Erase head not aligned properly. See "Erase Head Adjustment".

No Fast Forward or Reverse (See Figure 5) -

1. Idler lever tension spring (54) may be loose or broken; if so, the idler lever (68) will not be actuated. Replace spring (54).

2. Check idler drive belt (65), see Figure 6, to see if it is properly connected.

No Drive on Record or Playback (See Exploded View) -

1. Idler tension spring (98 or 99) loose or broken, thereby not holding idler wheel (76) in engagement with motor pulley (101) and flywheel (71).

2. Idler slide plate (97) binding on the slide bushing (96), thus preventing the idler from moving forward.

Tape Fails to Wind on Reel During Record or Playback -

1. Reel drive spring (9) loose or broken. See Figure 5.

Speed Variation or "Wow" (See Exploded View) -

1. Check capstan (67), pinch roller (31), idler (76), motor pulley (101), and flywheel (71) for oil or foreign material. Clean these parts with a good cleaning fluid.

2. Check motor pulley (101) to see if it is secured to motor.

3. Check idler tension spring (98 or 99); see if it is holding the idler engaged with motor pulley and flywheel.

4. Idler slide plate (97) binding on the slide bushing (96), preventing idler wheel (76) from making positive contact with motor pulley and flywheel.

Tape Overruns or Spills When Stop Button Is Depressed During Fast Forward or Rewind -

1. Brake shoes out of adjustment. See "Brake Shoe Adjustment".

2. Brake pads worn out. Replace pads.

Failure to Record -

1. Tape pressure pad not adjusted properly, resulting in the tape not being held against the recording head. See "Pressure Pad Adjustment".

2. Record head loose on its mounting. Adjust head and tighten into position as described under "Record-Play Head Adjustment".

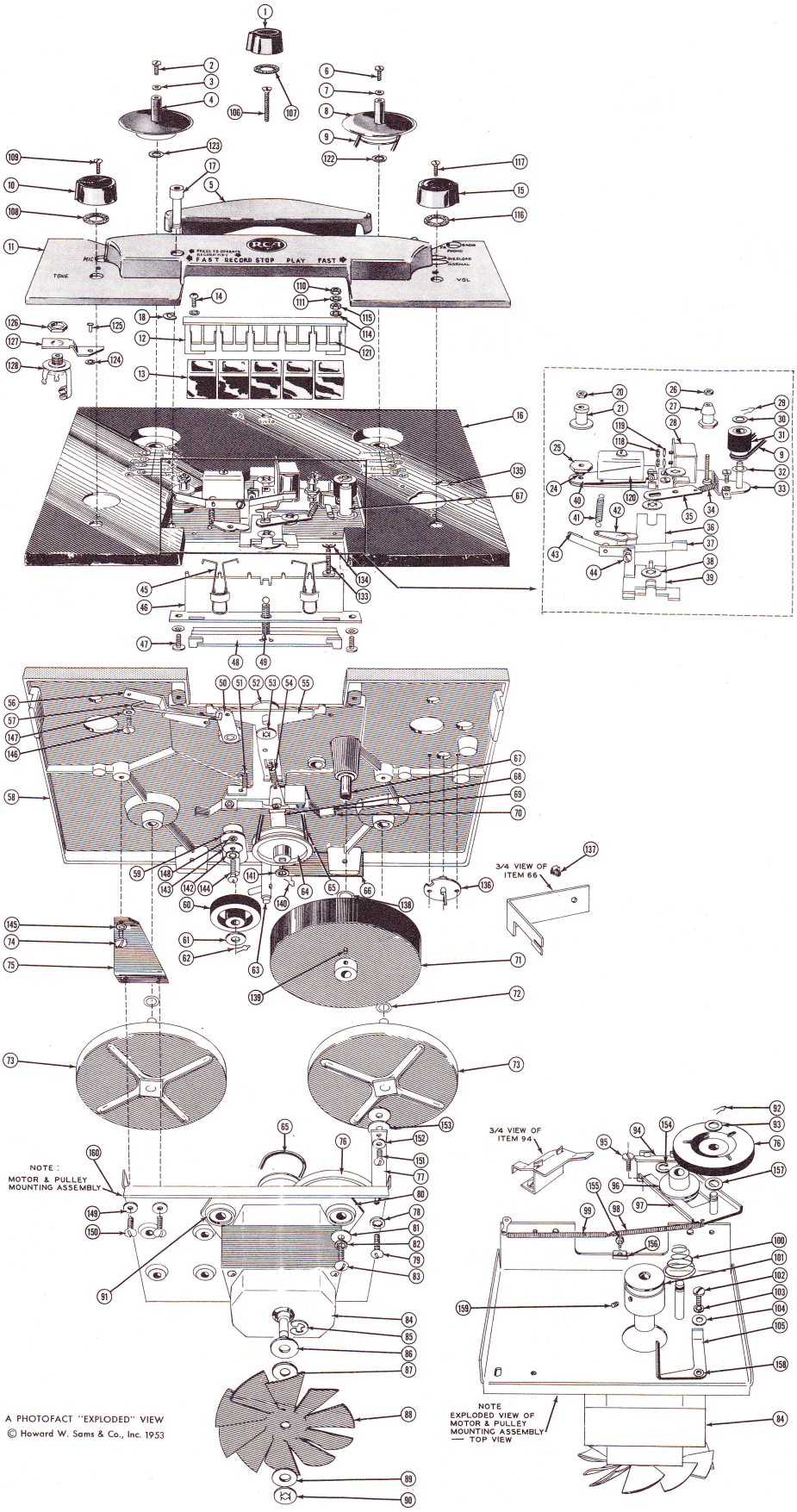

FAST RECORD STOP PLAY FAST
3/4 VIEW OF ITEM 66
3/4 VIEW OF ITEM 94
NOTE :
MOTOR & PULLEY MOUNTING ASSEMBLY
NOTE
EXPLODED VIEW OF MOTOR & PULLEY MOUNTING ASSEMBLY — TOP VIEW
A PHOTOFACT "EXPLODED" VIEW
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Figure 6.

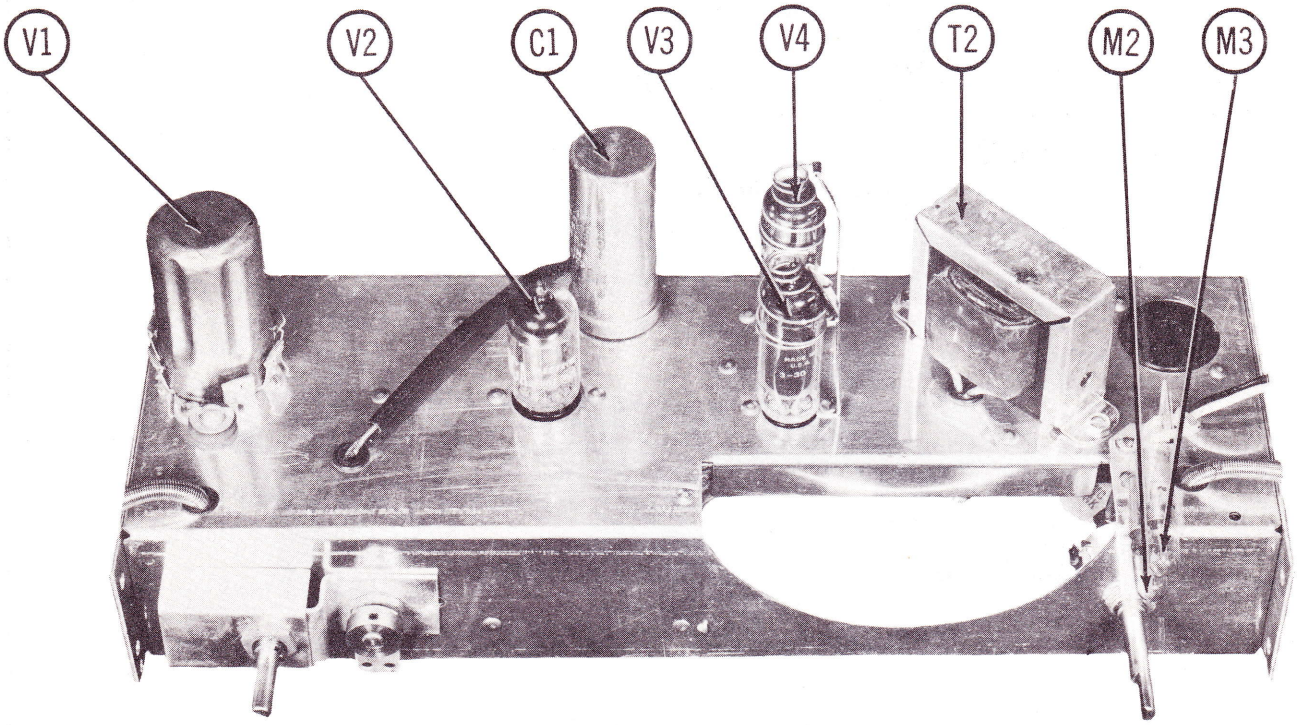


Figure 7.

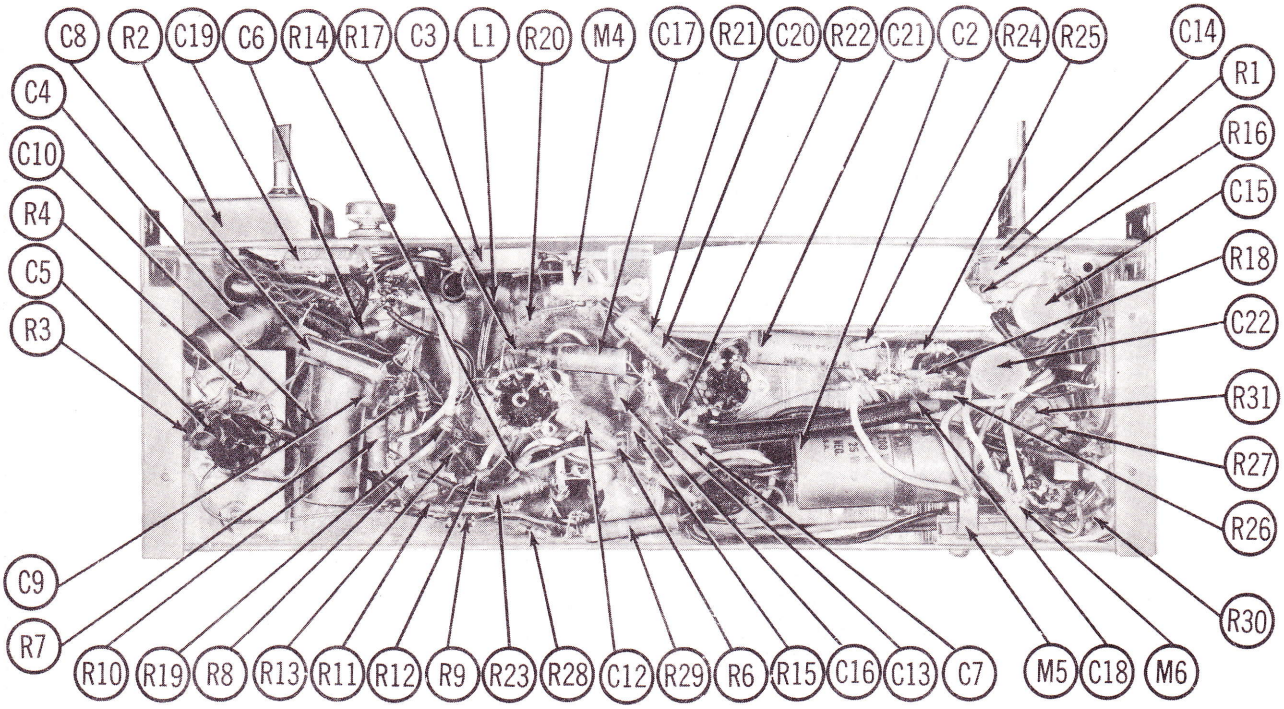
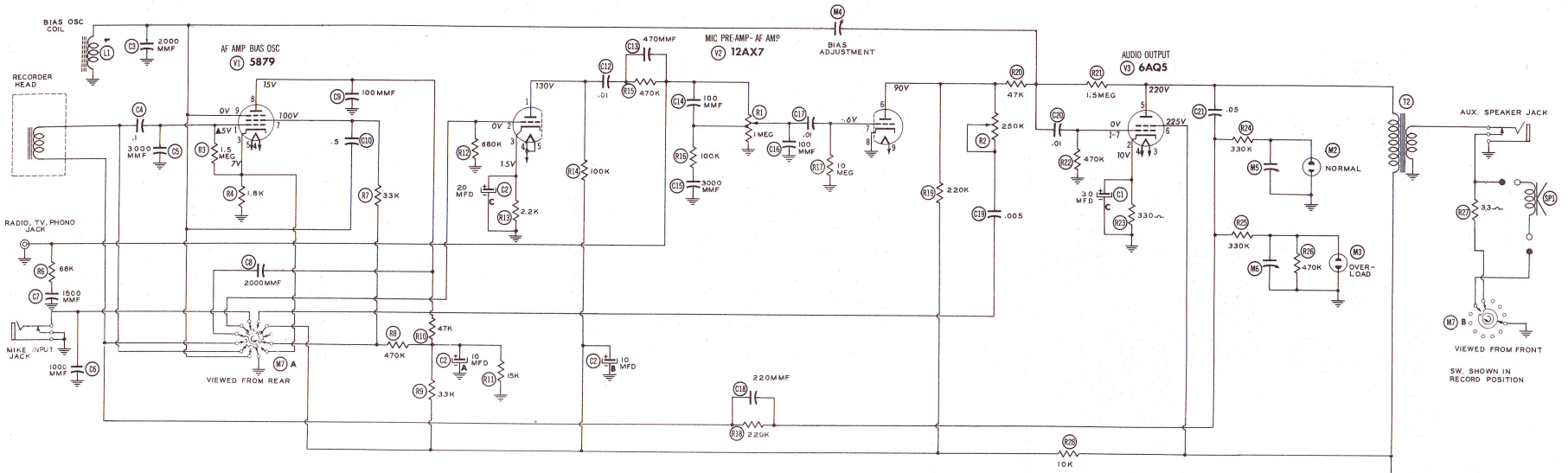


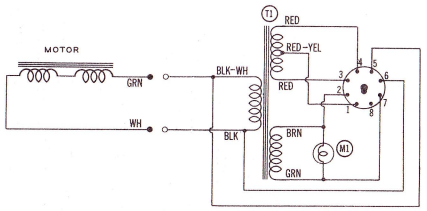
Figure 8.



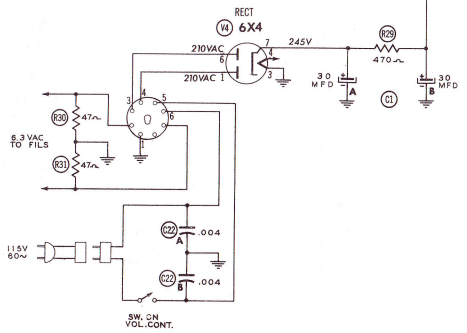
RESISTANCE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V 1	5879	∞ .5Meg	0Ω	1. 8KΩ	. 2Ω	0Ω	0Ω	† 43KΩ	† 143KΩ	48Ω
V 2	12AX7	† 110KΩ	0Ω	2. 2KΩ	0Ω	0Ω	† 200KΩ	10Meg	0Ω	. 2Ω
V 3	6AQ5	470KΩ	330Ω	. 2Ω	0Ω	† 750Ω	† 470KΩ	470KΩ		
V 4	6X4	100Ω	INF	0Ω	. 2Ω	INF	110Ω	400KΩ		

ALL MEASUREMENTS TAKEN IN "RECORD" POSITION.
† MEASURED FROM PIN 7 OF V4.
▲ TAKEN WITH VACUUM TUBE VOLTMETER.



THE COOPERATION OF THE MANUFACTURER OF THIS RECEIVER MAKES IT POSSIBLE TO BRING YOU THIS SERVICE



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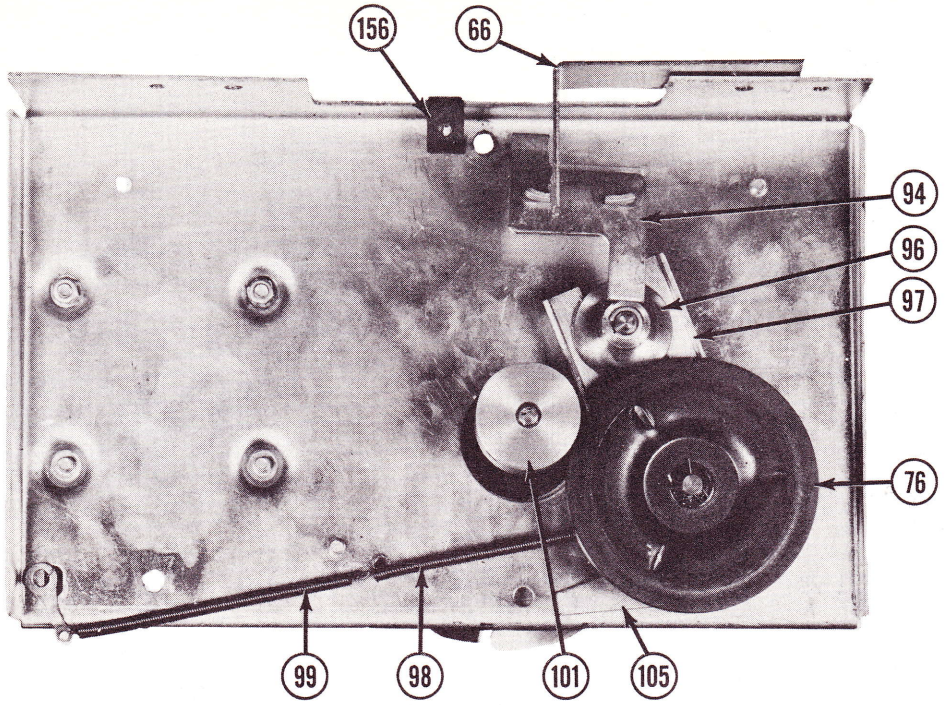

Figure 9.

3. Check the recording tape to see if the dull-coated side faces inward on the reel. If the dull side faces outward, a recording cannot be made. If this condition exists, wind the tape onto an empty reel, as described in "Threading the Tape".

CLEANING

The record head, capstan and pressure roller are subject to an accumulation of tape coating residue, which is worn off the tape as it passes these parts. Use a soft cloth and alcohol to clean the head surfaces, capstan and pressure roller.

CAUTION: Do not use a brush when cleaning the recording head as this could possibly mar the laminations.

LUBRICATION

All rotating parts are provided with generous - size oilite bearings, which are factory lubricated and require no further attention.

An occasional cleaning out of foreign matter under the plastic pushbutton cover is desirable, and a small drop of oil on the sliding lever members is advisable.

Neon Record Level Indicators-

The neon record indicator firing level adjustment is only required if a neon bulb is replaced. The two neon record level indicators are adjusted for correct firing level by means of two trimmer capacitors, one for each indicator.

To adjust indicators proceed as follows:

1. Turn recorder on and depress Record push button.

2. Connect a short jumper lead across the bias oscillator coil, L1 (short out the coil to disable the oscillator).

3. Connect an audio oscillator, set at 1000 cycles, into the microphone input jack. Output of audio oscillator should be approximately .01 volts. (A 1 volt output level may be used with a 100 to 1 reduction pad of resistors inserted between the audio oscillator and the microphone jack).

4. Connect probe of low capacity type AC VTVM to junction of 2-330KΩ resistors, R24 and R25, (mounted on terminal strip near volume control).

5. Adjust volume control to obtain a reading of 36 volts on VTVM and leave control set and VTVM connected.

6. Disconnect shorting jumper from across bias oscillator coil.

7. Adjust Normal indicator trimmer (M5) fully clockwise and then turn slowly counterclockwise so that upon loosening the trimmer the Normal neon bulb barely lights. This adjustment must be made loosening the trimmer.

8. Short out bias oscillator coil.

9. Increase volume control to obtain a reading of 88 volts on the VTVM.

10. Remove short from bias oscillator coil.

11. Adjust Overload indicator trimmer (M6) as described in step "7", for just barely lighting the Overload indicator bulb.

IMPORTANT: Do not readjust the recording bias oscillator adjustment after setting the indicator light adjustments.

ELECTRICAL PARTS LIST

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
V1		AF Amp., Bias Osc., 5879	R10	503347	Resistor, 47KΩ, 1/2 W.
V2		Mike Pre-Amp., AF Amp., 12AX7	R11	503315	Resistor, 15KΩ, 1/2 W.
V3		Audio Output, 6AQ5	R12	503468	Resistor, 680KΩ, 1/2 W.
V4		Rectifier, 6X4	R13	503222	Resistor, 2200Ω, 1/2 W.
C1A	98787	Cap., Electrolytic, 30mfd. @ 250V.	R14	503410	Resistor, 100KΩ, 1/2 W.
C1B		Cap., Electrolytic, 30mfd. @ 250V.	R15	503447	Resistor, 470KΩ, 1/2 W.
C1C		Cap., Electrolytic, 30mfd. @ 25V.	R16	503410	Resistor, 100KΩ, 1/2 W
C2A	98788	Cap., Electrolytic, 10mfd. @ 200V.	R17	503610	Resistor, 10 Meg., 1/2 W.
C2B		Cap., Electrolytic, 10mfd. @ 200V.	R18	503422	Resistor, 220KΩ, 1/2 W.
C2C		Cap., Electrolytic, 20mfd. @ 25V.	R19	503422	Resistor, 220KΩ, 1/2 W.
C3	39659	Cap., Mica, 2000mmf. @ 500V.	R20	503347	Resistor, 47KΩ, 1/2 W.
C4	73784	Cap., Paper, .1mfd. @ 200V.	R21	503515	Resistor, 1.5 Meg., 1/2 W.
C5	98798	Cap., Ceramic, 3000mmf. @ 500V.	R22	503447	Resistor, 470KΩ, 1/2 W.
C6	54677	Cap., Ceramic, 1000mmf. @ 500V.	R23	513133	Resistor, 330Ω, 1 W.
C7	75610	Cap., Ceramic, 1500mmf. @ 500V.	R24	503433	Resistor, 330KΩ, 1/2 W.
C8	39659	Cap., Mica, 2000mmf. @ 500V.	R25	503433	Resistor, 330KΩ, 1/2 W.
C9	75437	Cap., Ceramic, 100mmf. @ 500V.	R26	503447	Resistor, 470KΩ, 1/2 W.
C10	73787	Cap., Paper, .5mfd. @ 200V.	R27	94912	Resistor, 3.3Ω, 1 W.
C12	73561	Cap., Paper, .01mfd. @ 400V.	R28	503310	Resistor, 10KΩ, 1/2 W.
C13	94223	Cap., Ceramic, 470mmf. @ 500V.	R29	523147	Resistor, 470Ω, 2 W.
C14	75437	Cap., Ceramic, 100mmf. @ 500V.	R30	513047	Resistor, 47Ω, 1 W.
C15	98798	Cap., Ceramic, 3000mmf. @ 500V.	R31	513047	Resistor, 47Ω, 1 W.
C16	75437	Cap., Ceramic, 100mmf. @ 500V.	T1	98793	Power Transformer
C17	73561	Cap., Paper, .01mfd. @ 400V.	T2	98794	Output Transformer
C18	77460	Cap., Ceramic, 220mmf. @ 500V.	SP1	77270	Speaker, 5 x 7" PM, Complete
C19	73920	Cap., Paper, .005mfd. @ 600V.	L1	98789	Bias Osc. Coil, 7.7 milihenries
C20	73561	Cap., Paper, .01mfd. @ 400V.	M1	11891	Pilot Lamp, Type #44
C21	73553	Cap., Paper, .05mfd. @ 400V.	M2	91749	Neon Lamp, Type NE51, Normal Indicator
C22A	74009	Cap., Ceramic, 4000mmf. @ 500V.			
C22B		Cap., Ceramic, 4000mmf. @ 500V.	M3	91749	Neon Lamp, Type NE51, Overload Indicator
R1	98791	Volume Control, On/Off Switch, 1 Meg.	M4	71808	Trimmer, Bias Adj. (3-35mmf.)
R2	98792	Tone Control, 250KΩ	M5	71808	Trimmer, Normal Indicator Adj., (3-35mmf.)
R3	503515	Resistor, 1.5 meg., 1/2 W.			
R4	502218	Resistor, 1800Ω, 1/2 W.	M6	71808	Trimmer, Overload Indicator Adj., (3-35mmf.)
R6	503368	Resistor, 68KΩ, 1/2 W.			
R7	503333	Resistor, 33KΩ, 1/2 W.	M7A	98790	Play/Record Switch (Viewed from Rear)
R8	503447	Resistor, 470KΩ, 1/2 W.			
R9	503333	Resistor, 33KΩ, 1/2 W.	M7B		Play/Record Switch (Front)

MECHANICAL PARTS LIST

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
1	98795	Speed Shift Knob	24		Hex Nut, 6-32
2		Screw, 6-32 x 3/16 BHMS	25		Tape Guide Post Spacer
3		Lockwasher, #6 Cantlink	26		Hex Nut, 6-32
4	98796	Reel Pan for Feed Reel	27	98854	Tape Guide (Right)
5	98797	Rear Escutcheon	28	98808	Head, Recording, Playback
6		Screw, 6-32 x 3/16 BHMS	29	76744	Hairpin Clip
7		Lockwasher, #6 Cantlink	30	98809	Linen Washer
8	98796	Reel Pan for Take-Up Reel	31	98810	Pressure Roller
9	98799	Reel Drive Spring (Belt)	32	98809	Linen Washer
10	98800	Tone Control Knob	33	98811	Pressure Roller Plate Assembly
11	98801	Front Escutcheon	34		Pressure Roller Tension Spring
12	98802	Push Button Retainer Bracket	35		Playback Actuating Lever
13	98803	Push Button (Maroon), 5 Used	36	98813	Playback Slide Plate Assembly
14		Screw, 6-32 x 7/16 RHMS	37	98814	Pressure Pad Spring
15	98800	Volume Control Knob	38	74788	Speed Nut, 3/16 Stud
16	98805	Base Plate	39	98815	Record Slide Plate
17		Record Lock Button	40		Erase Head Plate
18		"C" Washer	41	98816	Erase Head Tension Spring
20		Hex Nut, 6-32	42	98817	Record Actuating Lever Assembly
21	98806	Tape Guide Post (Left)	43		Felt Pad
22		Erase Head Adjustment	44		Pressure Pad Spring Adjusting Screw, 6-32 x 3/8" RHMS
23		Erase Head Forward Adjustment Screw	45	98818	Push Button Return Spring

MECHANICAL PARTS LIST (Cont.)

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
46		Hinge Bracket for Push Buttons	101	98844	Motor Pulley
47		Screw, 6-32 x 1/4 Phillips RHMS	102		Screw
48		Locking Plate for Push Buttons	103		#8 Internal Lockwasher
49	98819	Lock Plate Spring	104		Flat Washer
50		Amplifier Switch Lever	105		Idler Throw Out Lever
51		Brake Return Spring	106		Screw, 6-32 x 1 O.C. Phil. Hd.
52	98821	Brake Slide Plate	107		Felt Washer
53		Speed Nut, 3/16 Stud	108		Felt Washer
54	98822	Idler Lever Tension Spring	109		Screw, 6-32 x 1/2 Phil. Hd. O.C. M.S
55	98823	Shift Plate for High Speed Assembly			
56	98824	Record Interlock Spring Assembly	110		Hex Nut, 6-32 x 1/4
57	98825	Switch Arm Link	111		#6 Internal Lockwasher
58		(Bottom View of Item 16)	114		#6 Internal Lockwasher
59	98826	Sub-Idler Plate Assembly	115		Hex Nut, 6-32 x 1/4
60	98827	Sub-Idler Wheel	116		Felt Washer
61		Felt Washer	117		Screw, 6-32 x 1/2 Phil. Hd. O.C. M.S.
62	76744	Hairpin Clip			
63	98828	Speed Control Shaft Assembly	118		Hex Nut
64	98829	Idler Drive Sheave	119		#2 Internal Lockwasher
65	98830	Idler Drive Belt	120	98845	Erase Head
66	98831	Idler Steady Bracket	121		Push Button Lever Assembly
67	98832	Capstan Shaft	122		Linen Washer
68	98833	Idler Lever Assembly	123		Linen Washer
69		Brake Arm	124		Washer
70		Brake Pad	125		Rivet
71		Flywheel	126		Hex Nut
72		Linen Washer	127		Input Jack Bracket
73		Brake Drum	128	35787	Midget Jack
74		Screw, 8-32 x 1/4 B.H.	133		Screw, 6-32 x 1/2" BHMS
75		Drive Mounting Plate Bracket	134		#6 Internal Lockwasher
76		2 1/2" Rubber Bonded Idler	135		Rivet
77		Angle Bracket	136	7903	Phono Jack
78		#8 Ext. Lockwasher	137		Screw, 8-32 x 1/4 Undercut Flat Hd.
79		Screw, 8-32 x 3/8 R.H.	138		Linen Washer
80		Motor Adaptor Plate	139		Set Screw, 8-32 x 3/16 Allen Hd.
81		Flat Washer	140		Hairpin Clip
82		#8 Internal Lockwasher	141		Linen Washer
83		Screw, 8-32 x 5/8	142		#8 Ext. Lockwasher
84	98836	Motor	143		Flat Washer
85		Truarc Retaining "E" Ring	144		Screw, 8-32 x 3/8 HHMS
86		Flat Washer	145		#8 Ext. Lockwasher
87		Felt Washer	146		Screw, 8-32 x 1/4 BHMS
88		Fan, Motor Cooling	147		#8 Ext. Lockwasher
89		Felt Washer	148		Shoulder Washer
90	98839	Push-on Fastener	149		#8 Ext. Lockwasher
91		Grommet, Motor Adaptor	150		Screw, 8-32 x 1/4 BHMS
92	76744	Hairpin Clip	151		Screw, 8-32 x 3/8 BHMS
93		Linen Washer	152		#8 Ext. Lockwasher
94		Speed Shift Lever	153		Flat Washer
95		Screw, 6-32 x 1/4 BHMS	154	98847	Retaining Washer
96		Idler Slide Bushing	155		Screw, #4 x 3/16 Phil. Hd.
97		Idler Pulley Switch Slide Plate Assembly	156	98848	Spring Clip
			157		Linen Washer
98	98842	Idler Tension Spring	158		Shoulder Washer
99	98842	Idler Tension Spring	159		Set Screw, 8-32 x 1/4 Allen Hd.
100	98843	Idler Lift Compression Spring	160		Motor, Transformer Mtg. Assembly